AMENDMENTS TO THE CLAIMS

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Amendments to the claims are shown in the following listing of claims, which replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 1-156. (Canceled)
- 157. (Currently amended) An isolated polypeptide according to claim 156 consisting of amino acids 229-547 in the amino acid sequence set forth in SEQ ID NO: 2, wherein the polypeptide binds to a carbohydrate in a calcium ion (Ca²⁺)-dependent manner.
 - 158.-160. (Canceled)
- 161. (Currently amended) An isolated polynucleotide according to claim 160 consisting of nucleotides 739-1695 of set forth in SEQ ID NO: 1, wherein the polynucleotide encodes the polypeptide according to claim 157.
- 162. (Currently amended) An isolated polynucleotide comprising consisting of a nucleotide sequence that hybridizes complementary to a polynucleotide complementary to nucleotides consisting of nucleotides 739-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising of 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising of 2 X SSC/0.1% SDS, wherein the polynucleotide encodes [[a]] the polypeptide according to claim 157. that binds a carbohydrate in a Ca²⁺-dependent manner.
- 163. (Currently amended) An isolated polypeptide according to claim 156 consisting of amino acids 226-547 of set forth in SEQ ID NO:2, wherein the polypeptide binds to a carbohydrate in a calcium ion (Ca²⁺)-dependent manner.
 - 164.-165. (Canceled)
- 166. (Currently amended) An isolated polynucleotide according to claim 160 consisting of nucleotides 730-1695 in the nucleotide sequence of set forth in SEQ ID NO: 1, wherein the polynucleotide encodes the polypeptide according to claim 163.
- 167. (Currently amended) An isolated polynucleotide comprising consisting of a nucleotide sequence that hybridizes complementary to a polynucleotide complementary to consisting of nucleotides 730-1695 of SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising of 5 X SSC, 1% blocking agent, 0.1% N-

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lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising of 2 X SSC/0.1% SDS, wherein the polynucleotide encodes [[a]] the polypeptide according to claim 163. that binds a carbohydrate in a Ca²⁺-dependent manner.

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168. (Currently amended) An isolated polypeptide according to claim 156 consisting of amino acids 211-547 set forth in SEQ ID NO: 2, wherein the polypeptide binds to a carbohydrate in a calcium ion (Ca²⁺)-dependent manner.

169.-170. (Canceled)

- 171. (Currently amended) An isolated polynucleotide according to claim 160 consisting of nucleotides 685-1695 of set forth in SEQ ID NO: 1, wherein the polynucleotide encodes the polypeptide according to claim 168.
- 172. (Currently amended) An isolated polynucleotide comprising consisting of a nucleotide sequence that hybridizes complementary to a polynucleotide complementary to consisting of nucleotides 685-1695 of set forth in SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising of 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising of 2 X SSC/0.1% SDS, wherein the polynucleotide encodes [[a]] the polypeptide according to claim 168. that binds a carbohydrate in a Ca²⁺-dependent manner.
- 173. (Currently amended) An isolated polypeptide according to claim 156 consisting of amino acids 206-547 set forth in SEQ ID NO: 2, wherein the polypeptide binds to a carbohydrate in a calcium ion (Ca²⁺)-dependent manner.

174.-175. (Canceled)

- 176. (Currently amended) An isolated polynucleotide according to claim 160 consisting of nucleotides 670-1695 of set forth in SEQ ID NO: 1, wherein the polynucleotide encodes the polypeptide according to claim 173.
- 177. (Currently amended) An isolated polynucleotide eomprising consisting of a nucleotide sequence that hybridizes complementary to a polynucleotide eomplementary to consisting of nucleotides 670-1695 of set forth in SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution eomprising of 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution eomprising of 2 X

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SSC/0.1% SDS, wherein the polynucleotide encodes [[a]] the polypeptide according to claim 173. that binds a carbohydrate in a Ca²⁺-dependent manner.

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178. (Currently amended) An isolated polypeptide according to claim 156 consisting of amino acids 102-547 of set forth in SEQ ID NO: 2, wherein the polypeptide binds to a carbohydrate in a calcium ion (Ca²⁺)-dependent manner.

179.-180. (Canceled)

- 181. (Currently amended) An isolated polynucleotide according to Claim 160 consisting of nucleotides 358-1695 in the nucleotide sequence of set forth in SEQ ID NO: 1, wherein the polynucleotide encodes the polypeptide according to claim 178.
- 182. (Currently amended) An isolated polynucleotide emprising consisting of a nucleotide sequence that hybridizes complementary to a polynucleotide emplementary to consisting of nucleotides 358-1695 of set forth in SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution emprising of 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution emprising of 2 X SSC/0.1% SDS, wherein the polynucleotide encodes [[a]] the polypeptide according to claim 178. that binds a carbohydrate in a Ca²⁺ dependent manner.
- 183. (Currently amended) An isolated polypeptide according to claim 156 consisting of amino acids 91-547 of set forth in SEQ ID NO: 2, wherein the polypeptide binds to a carbohydrate in a calcium ion (Ca²⁺)-dependent manner.

184.-185. (Canceled)

- 186. (Currently amended) An isolated polynucleotide according to claim 160 consisting of nucleotides 325-1695 of set forth in SEQ ID NO: 1, wherein the polynucleotide encodes the polypeptide according to claim 183.
- 187. (Currently amended) An isolated polynucleotide emprising consisting of a nucleotide sequence that hybridizes complementary to a polynucleotide emplementary to consisting of nucleotides 325-1695 of set forth in SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution emprising of 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution emprising of 2 X SSC/0.1% SDS, wherein the polynucleotide encodes [[a]] the polypeptide according to claim 183. that binds a carbohydrate in a Ca²⁺ dependent manner.

188. (Currently amended) An isolated polypeptide according to claim 156 consisting of amino acids 9-547 of set forth in SEQ ID NO: 2, wherein the polypeptide binds to a carbohydrate in a calcium ion (Ca²⁺)-dependent manner.

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189.-190. (Canceled)

- 191. (Currently amended) An isolated polypeptide polynucleotide according to claim 160 consisting of nucleotides 79-1695 of set forth in SEQ ID NO: 1, wherein the polynucleotide encodes the polypeptide according to claim 188.
- 192. (Currently amended) An isolated polynucleotide emprising consisting of a nucleotide sequence that hybridizes complementary to a polynucleotide emplementary to consisting of nucleotides 79-1695 of set forth in SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution emprising of 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution emprising of 2 X SSC/0.1% SDS, wherein the polynucleotide encodes [[a]] the polypeptide according to claim 188. that binds a carbohydrate in a Ca²⁺-dependent manner.
- 193. (Currently amended) An isolated polypeptide according to claim 156 consisting of amino acids 1-547 of set forth in SEQ ID NO: 2, wherein the polypeptide binds to a carbohydrate in a calcium ion (Ca²⁺)-dependent manner.

194.-195. (Canceled)

- 196. (Currently amended) An isolated polynucleotide according to claim 160 consisting of nucleotides 55-1695 of set forth in SEQ ID NO: 1, wherein the polynucleotide encodes the polypeptide according to claim 193.
- 197. (Currently amended) An isolated polynucleotide comprising consisting of a nucleotide sequence that hybridizes complementary to a polynucleotide complementary to consisting of nucleotides 55-1695 of set forth in SEQ ID NO: 1 under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising of 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising of 2 X SSC/0.1% SDS, wherein the polynucleotide encodes [[a]] the polypeptide according to claim 193. that binds a carbohydrate in a Ca²⁺-dependent manner.

198. (Canceled)

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199. (Currently amended) A vector comprising the polynucleotide according to claim 161, inserted into the vector for expression of a polypeptide consisting of amino acids 229-547 of SEQ-ID NO: 2.

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- 200. (Currently amended) A vector comprising the polynucleotide according to claim 166. inserted into the vector for expression of a polypeptide consisting of amino acids 226-547 of SEO ID NO: 2:
- 201. (Currently amended) A vector comprising the polynucleotide according to claim 171. inserted into the vector for expression of a polypeptide consisting of amino acids 211-547 of SEQ ID NO: 2.
- 202. (Currently amended) A vector comprising the polynucleotide according to claim 176. inserted into the vector for expression of a polypeptide consisting of amino acids 206-547 of SEQ ID NO: 2.
 - 203. (Canceled)
- 204. (Currently amended) A vector comprising the polynucleotide according to claim 181. inserted into the vector for expression of a polypeptide consisting of amino acids 102-547 of SEQ ID NO: 2.
- 205. (Currently amended) A vector comprising the polynucleotide according to claim 186. inserted into the vector for expression of a polypeptide consisting of amino acids 91–547 of SEQ ID NO: 2.
- 206. (Currently amended) A vector comprising the polynucleotide according to claim 191. inserted into the vector for expression of a polypeptide consisting of amino acids 9-547 of SEQ ID NO: 2.
- 207. (Currently amended) A vector comprising the polynucleotide according to claim 196. inserted into the vector for expression of a polypeptide consisting of amino acids 1-547 of SEQ ID NO: 2.
 - 208. (Canceled)
- 209. (Currently amended) An isolated host cell comprising the vector according to claim 199, inserted for expression of the polypeptide consisting of amino acids 229-547 of SEQ ID NO: 2.

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210. (Currently amended) An isolated host cell comprising the vector according to claim 200, inserted for expression of the polypeptide consisting of amino acids 226-547 of SEQ ID NO: 2.

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- 211. (Currently amended) An isolated host cell comprising the vector according to claim 201. inserted for expression of the polypeptide consisting of amino acids 211-547 of SEQ ID NO: 2.
- 212. (Currently amended) An isolated host cell comprising the vector according to claim 202. inserted for expression of the polypeptide consisting of amino acids 206-547 of SEQ ID NO: 2.
 - 213. (Canceled)
- 214. (Currently amended) An isolated host cell comprising the vector according to claim 204. inserted for expression of the polypeptide consisting of amino acids 102-547 of SEQ ID NO: 2.
- 215. (Currently amended) An isolated host cell comprising the vector according to claim 205. inserted for expression of the polypeptide consisting of amino acids 91-547 of SEQ ID NO: 2.
- 216. (Currently amended) An isolated host cell comprising the vector according to claim 206, inserted for expression of the polypeptide consisting of amino acids 9-547 of SEQ ID NO: 2.
- 217. (Currently amended) An isolated host cell comprising the vector according to claim 207. inserted for expression of the polypeptide consisting of amino acids 1-547 of SEQ ID NO: 2.
- 218. (Currently amended) A probe <u>comprising the polynucleotide according to claim 161</u> and for screening for a homologue, <u>consisting of nucleotides 739-1695</u> in the nucleotide sequence of SEO ID NO: 1.
- 219. (Currently amended) An isolated polynucleotide that hybridizes with the probe according to claim 218 and that is an amplification product from a PCR reaction performed using primers consisting of the nucleotide sequences of caatctgatgagaaggtgatg (SEQ ID NO: 4) and acgaggggctggatgggacat (SEQ ID NO: 5)., wherein the polynucleotide encodes a polypeptide that binds a carbohydrate in a Ca²⁺ dependent manner.